## Claims

- 1. A screening method to determine effective cancer curative medicines, comprising:
  - (1) determining position(s) of polymorphic amino acid(s) in amino acids sequence(s), including at least one of DRB1\*gene, DQB1\*gene, and DPB1\*gene of HLA,
  - (2) analyzing variations of the polymorphic position(s) of the amino acid(s), and survival results (prognosis, treatment effects) by the cancer treatments [the cancer resection alone (no adjuvant therapy), the anticancer chemotherapy after the cancer resection (Chemotherapy), and the anticancer immunotherapy after the cancer resection (Immunotherapy)],
  - (3) determining positions of the amino acids and the amino acid(s), which have been estimated to have a statistically significant relationship with the treatments,
  - (4) creating a three-dimensional structure of amino acid sequences including the amino acids, and
  - (5) using the interactions of candidate compounds with the three-dimensional structure as a marker.
- 2. The method according to claim 1, wherein cancer is analyzed by distinguishing stomach cancer and others.
- 3. The method according to claim 1, which is carried out by utilizing drug designing techniques based on comparison with the three-dimensional structure of the candidate compounds.
- 4. The method according to claim 1, wherein effective cancer curative medicines can suppress and control metastasis of cancer.
- 5. The method according to claim 1, wherein effective cancer curative medicines are immunological medicines.
- 6. The method according to claim 1, wherein effective cancer curative medicines are chemotherapeutic medicines.

- 7. The method according to claim 1, wherein the effectiveness of the cancer curative medicines is measured by:
  - (1) contacting the candidate compounds and the three-dimensional structure by alignment and variation of each amino acid under a condition in which the interaction is possible,
  - (2) evaluating the interaction of the three-dimensional structure with the candidate compounds, and detecting a signal of the interaction.
- 8. The method according to claim 7, wherein cancer is analyzed by distinguishing stomach cancer and other cancers.
- 9. The method according to claim 1, wherein both effectiveness of the anticancer treatments and the variations of the base sequences coding the polymorphic amino acids on any one of DRB1\*gene, DQB1\*gene, and DPB1\* gene of HLA, are analyzed.
- 10. The method according to claim 7, wherein both effectiveness of the anticancer treatments and the variations of the base sequences coding the polymorphic amino acids on any one of DRB1\*gene, DQB1\*gene, and DPB1\* gene of HLA, are analyzed.
- 11. A measuring method for evaluating anticancer treatments, comprising:
  - (1) determining position(s) of polymorphic amino acid(s) in amino acids sequence(s), including at least one of DRB1\*gene, DQB1\*gene, and DPB1\*gene of HLA,
  - (2) analyzing variations of the polymorphic position(s) of the amino acid(s), and survival results (prognosis, treatment effects) by the cancer treatments [the cancer resection alone (no adjuvant therapy), the anticancer chemotherapy after the cancer resection (Chemotherapy), the anticancer immunotherapy after the cancer resection (Immunotherapy)],
  - (3) determining positions of the amino acids and the amino acids, which have been estimated to have a statistically significant relationship with the treatments, and

- (4) utilizing the specified positions and the corresponding amino acid(s) as a marker.
- 12. The method of claim 11, wherein cancer is analyzed by distinguishing stomach cancer from other cancers.
- 13. A measuring method for evaluating cancer treatments, comprising:
  - (1) determining position(s) of polymorphic amino acid(s) in amino acids sequence(s), including at least one of, DRB1\*gene, DQB1\*gene, and DPB1\*gene of HLA,
  - (2) analyzing variations of the base sequences coding the polymorphic positions of the amino acid, and survival results (prognosis, treatment effects) by the cancer treatments [the cancer resection alone (no adjuvant therapy), the anticancer chemotherapy after the cancer resection (Chemotherapy), the anticancer immunotherapy after the cancer resection (Immunotherapy)],
  - (3) determining position(s) of the amino acids and the amino acid(s) which have been estimated to have a statistically significant relationship with the treatments, and the corresponding base sequences, and
  - (4) utilizing the specified positions and the amino acids together with the corresponding base sequences as a marker.
- 14. The method according to claim 13, wherein cancer is analyzed by distinguishing stomach cancer from other cancers.
- 15. Clinical measuring reagents comprising a composition:
  - (1) wherein positions of polymorphic amino acid(s) in amino acids sequence(s), that include at least one of, DRB1\*gene, DQB1\*gene, and DPB1\*gene of HLA have been determined,
  - (2) wherein the variation of the polymorphic positions of the amino acid, and survival results (prognosis, treatment effects) by the cancer treatments [the cancer resection alone (no adjuvant therapy), the anticancer chemotherapy after the cancer resection

- (Chemotherapy), the anticancer immunotherapy after the cancer resection (Immunotherapy)] have been analyzed,
- (3) wherein the positions of the amino acids and the amino acids, which have been estimated to have a statistically significant relationship with the treatments, have been determined, and
- (4) wherein the specified positions and the corresponding amino acids have been used as a marker.
- 16. The method according to claim 15, wherein cancer is analyzed by distinguishing stomach cancer from other cancers.
- 17. Clinical measuring reagents comprising a composition:
  - (1) wherein position(s) of polymorphic amino acid(s) in amino acids sequence(s), that include at least one of DRB1\*gene, DQB1\*gene, and DPB1\*gene of HLA have been determined,
  - (2) wherein the variations of the base sequences coding the polymorphic positions of the amino acid, and survival results (prognosis, treatment effects) by the cancer treatments [the cancer resection alone (no adjuvant therapy), the anticancer chemotherapy after the cancer resection (Chemotherapy), the anticancer immunotherapy after the cancer resection (Immunotherapy)] have been analyzed,
  - (3) wherein the positions of the amino acids and the base sequences of amino acids which have been estimated to have a statistically significant relationship with the treatments, and the corresponding base sequences have been determined, and
  - (4) wherein the specified positions and the amino acids together with the base sequences have been used as a marker.
- 18. The method according to claim 17, wherein cancer is analyzed by distinguishing stomach cancer from other cancers.